

P23556.A01



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Tetsuro OGAWA et al.

Group Art Unit: Unknown

Appln. No. : 10/618,687

Examiner: Unknown

Filed : July 15, 2003

For : CaO SiO₂ BASED BIOACTIVE GLASS AND SINTERED CALCIUM
PHOSPHATE GLASS USING SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir :

In accordance with the duty of disclosure under 37 C.F.R. §1.56, §1.97-1.98, Applicants hereby call the following documents to the Examiner's attention:

Japanese Laid-Open Patent Publication No. 2000-72572, published on March 7, 2000, together with an English language translation of the same;

Japanese Laid-Open Patent Publication No. 60-239341, published on November 28, 1985, together with an English language Abstract of the same;

SALINAS et al., "In vitro bioactivity of glass and glass-ceramics of the 3CaO·P₂O₅-CaO·SiO₂-CaO·MgO·2SiO₂ system", Biomaterials 21 (2000) 251-257;

SANTOS et al., "Liquid phase sintering of hydroxyapatite by phosphate and silicate glass additions: structure and properties of the composites", Journal of Materials Science: Materials in Medicine 6 (1995) 348-352;

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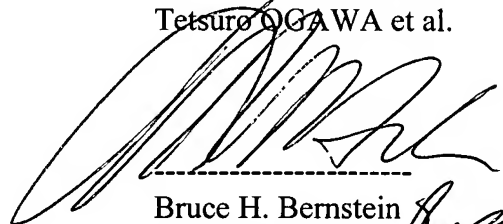
SANTOS et al., "Reinforcement of hydroxyapatite by adding P_2O_5 -CaO glasses with Na_2O , K_2O and MgO , Journal of Materials Science: Materials in Medicine 7 (1996) 187-189; and

LEONOR et al., "Novel starch thermoplastic/Bioglass® composites: Mechanical properties, degradation behavior and in-vitro bioactivity", Journal of Materials Science: Materials in Medicine 13 (2002) 939-945.

Applicants respectfully request that the Examiner consider the above materials and cite the patent documents and enclosed translation. Copies of the above-noted documents are attached and have been listed on a PTO-1449 Form which is also attached hereto. Accordingly, the Examiner is requested to initial the appropriate spaces on the attached PTO-1449 Form and to return a copy of the Form to the Applicants with the next official communication in the present application to confirm consideration of these documents.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,
Tetsuro OGAWA et al.



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October 14, 2003
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U.S. Department of Commerce
Patent and Trademark Office

Serial No.
10/618,687

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**
(Use several sheets if necessary)

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		1	English Language Translation of JP Appln. No. 2000-72572.
		2	English Language Abstract of JP Appln. No. 60-239341.
		3	SALINAS et al., "In vitro bioactivity of glass and glass-ceramics of the $3\text{CaO}\cdot\text{P}_2\text{O}_5\text{-CaO}\cdot\text{SiO}_2\text{-CaO}\cdot\text{MgO}\cdot 2\text{SiO}_2$ system", Biomaterials 21 (2000) 251-257.
		4	SANTOS et al., "Liquid phase sintering of hydroxyapatite by phosphate and silicate glass additions: structure and properties of the composites", Journal of Materials Science: Materials in Medicine 6 (1995) 348-352.

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Atty. Docket No.
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U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		5	SANTOS et al., "Reinforcement of hydroxyapatite by adding P ₂ O ₅ -CaO glasses with Na ₂ O, K ₂ O and MgO, Journal of Materials Science: Materials in Medicine 7 (1996) 187-189.
		6	LEONOR et al., "Novel starch thermoplastic/Bioglass® composites: Mechanical properties, degradation behavior and in-vitro bioactivity", Journal of Materials Science: Materials in Medicine 13 (2002) 939-945.

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